

ELMotamyez Questions Bank



Math

Final Revision



MR. Mahmoud Elkhouly

















First term Questions Bank



6	Question 01	Choose t					
1	Take away doubl	e the number	r m from 20 is writ	ten as	<u> </u>	100	
	20 - m	(b)	m - 20	0	2m - 20	d	20 – 2m
2	The volume of th	e cube of edg	ge length 4 cm is	•••••	cm ³		
	12 x 4	(b)	4 + 4 + 4	©	4 ³	d	34
3	3×3×3×3×3=	•••••					
· Mo	3 x 5	(b)	3+3+3+3+3	©	35	(d)	5 ³
4	3+3+3+3+3=						
20	3 x 5	(b)	3x3x3x3x3	0	35	(1)	5 ³
5	The val <mark>ue</mark> of the	expression 5	$m \div 3$ for $m = 6$ is	•••••			
	3	(b)	5	0	6	(d)	10
6	The first operation	n you prefor	m in the expressio	n 6 + (5 ³ – 4) ÷ 2 is	******	
	a add	(b)	Subtract	©	exponent	d	Divide
7	The first operation	n you prefor	m in th <mark>e e</mark> xpressio	n 6 + 5	i ³ – (4 ÷ <mark>2)</mark> is .		
10	add add	(b)	Subtract	0	exponent	d	Divide
9	Seven cubed add	led to six squa	ared equals				
	(a) $7 \times 3 + 6 \times 2$	<u>(b)</u>	$6^2 + 7^3$	0	$6^2 - 7^3$	d	$2^6 + 3^7$
10	Rozana saved x p		ahmoud Elkholy ga	ave he	<mark>r 20 poun</mark> ds , t	hen she	ha <mark>ve</mark>
	X - 20	(b)	45	•	X + 20	d	20 x
11	If $x + 5 = 8$, then	3x =					
	3	(b)	5	©	9	(15
12	A number if adde	ed to 5 the res	sult is 17 , then the	numb	er is		
	(a) 12	(b)	22	©	5	d	17
(13)	is a solution	on of the ineq	uality d > 15				



15

20

All of them





14	is a solution of the inequality $d \ge 15$
	a solution of the inequality u = 10

(a) 15

(b) 16

- 20
- All of them

- 15 The mode of 7, 9, 7, 8, 7, 6, 7 and 10 is.......
 - 7

(b) 8

9

 (\mathbf{d})

1(

(16) All the dot plots have the following characteristics except

dot plot should have titles

- dot plots should have data graphed above a number line
- the number lines in dot plots should start at 0
- each individual piece of data can be seen on a dot plot and is represented by a dot.

A has two axes, horizontal and vertical.

- bar graph
- **b** histogram
- double bar graph
- all of them
- 18 The question: what are the students favourite colours? Is a...... question
 - statistical
- **b** non-statistical
- o numerical data
- All of them

The range = the greatest value...... the smallest values.

(a) +

(b) -

- (c) ÷
- **d** ,

The best subset for the number 5 is

- (a) Counting numbers
- (b) Rational numbers
- Integers
- natural numbers

The best subset for the number 5.2 is

- (a) Counting numbers
- Rational numbers
- Integers
- natural numbers

The Set of counting numbers The set of rational numbers

- Belong
- not belong
- subset
- Not subset

23 The Set of integers The set of natural numbers

- Belong
- **b** not belong
- subset
- Not subset

24) -5The set of rational numbers

- Belong
- **b** not belong
- subset
- Not subset

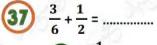
r is 9 times p added to twice m in the equation is.......

- r=9p+m
- r = 2m + 9p
- 9 r = p + 2m
- r+m=9p





				June June	prim	ary 6 - first tern		حمود سعتد <u>ص</u>
26	In th	ne equation : $y = x + 1$, if the	output is 1, then t	he inpu	ut is		385° J
400	a	1	(b)	3	©	2	d	0
27)	The	order pair which sat	isfies	the rule: $y = 3x + 1$	is			
10	(1)	(0,0)	(b)	(0, 4)	©	(- 1, 1)	(1)	(1,4)
28	whic	ch of the following d	ate se	t hasn't any outlie	r?			
JEST T	a	103,104,105,103,102	.17		(b)	24,25,26,21,22,2	23,204	350
	0	300, 309,302,303	,305,3	06,308	(1)	4,211,212,213,214	,215,10	000
29	You	ssef eat at leas <mark>t 3</mark> or	anges	, then Youssef ma	y eat .	oranges		
	(1)	3	(b)	5	©	12	(d)	All of them
30	Laya	an has <mark>25</mark> pounds an	d May	a has more money	than	Layan , then May	a <mark>m</mark> ay	haspoun
55	(1)	25	(b)	20	©	100	d	All of them
31)	-	d ha <mark>s 1</mark> 6 candies and .can <mark>d</mark> ies .	Karee	em has less candie	s than	Zyad , then Kare	em m	ay has
	(1)	100	(b)		©	10	d	All of them
32		a bo <mark>ug</mark> ht 6 SPIRO SF boughtSPIR			ought s	same number or	more	then Mohame,
16	(1)	6	(b)	12	0	100	d	All of them
(33)	Allo	f the following are s	olutio	ns of inequality x s	-8 ex	cept		
2	(1)	-8	(b)	-10	©	-7	(1)	All of them
34)	In th	ne equat <mark>ion : 5x + 2 =</mark>	y, the	independent vari	able is			
	(1)	5	(b)	2	©	X	d	у
35	In th	ne equation : $b = \frac{1}{2}f +$	3,the	e dependent varial	ole is	*************		
	(1)	5	(b)	2	0	f	d	b
36)	The	GCF of any two diffe	erent _l	orime numbers is .	**********	· 585 B		
	(1)	0	b	1	©	itself	(1)	The smallest number
37	$\frac{3}{6} + \frac{1}{3}$	1/2 =						



Which of the following is an equation?

3n + 7

7 times the number h

3c=3

6e-7







(2, m) satisfies the rule y = 3x - 2, then m =

1

(b) 2

- 3
- **d** 4

In the equation : y = 2x + 10, the ordered pair (3, n) satisfies the equation, then $n = \dots$

2

(b) 10

- 16
- **(1)** 30

"Y is 6 times h added to 12" in equation is

- (a) 12 = y + 6h
- Y = 12 h + 6
- © H = 6y +12

(.......) is called the origin .

- **(1,1)**
- (b) (0.1)
- (0,0)
- (1,0)

43 The greatest negative integer is

(a) 1

(b) -

- 0
- -1000,000

 $\frac{3}{7} + \frac{2}{5} = \dots$

- $\frac{29}{35}$
- \bigcirc $\frac{1}{2}$
- **(d)**

(47) 3(5+4)=(3x.....)+(....x4)

5,3

(b) 5,4

- 3,5
- **3**,4

In the equation the : y = 2x + 3, the ordered pair (2, a) satisfies the equation then, $a = \dots$

5

(b) 8

- © 7
- **d** 9

49 The median of the value 4, 7, 8, 1 and 3 is

3

(b) 1

- **(c)** 4
- **d** 7

The median of B + 1, B + 2, B + 3 is 10, then B =.......

(a) 1

(b) 3

- 2
- **(1)** 8

If the upper quartile of the values: m + 1, m + 2, m + 3, m + 4, k + 5, where m is a positive integer is 16.5, then $m = \dots$

② 7

(b) 8

- 12
- **1**0

(52) All the following are numerical data except......

- names
- **b** ages
- length
- temperatures

53) The opposite of the number 15 is

15

- 115 I
- -15
- I -15 I

The additive inverse of I - 4 I is

4

- 141
- -4
- **1**-4





- In the equation : x = 5 y + 3, the dependent variable is.........
 - 5_y

- In the equation: 4 a + 24 = b, the independent variable is........

- 24
- 4a

- "k equals the product of m and 4" in equation is.........
 - (a) k = 4 m
- (b) k = 4 + m
- m = 4k
- m = k + 4

- which of the following is an equation?
 - $20 \times + 53.2$
- 2+ m
- Y > 12
- 5x = 20

- "30 less than f equals y" in the equation is.......
 - 30 f = y
- **(b)** 30 + f = y
- F 30 = y(0)
- Y 30 = f

- If (4,....) satisfies the rule $y = \frac{1}{2}x + 2$

- $\frac{9}{2}$ The set of natural numbers
 - Belong
- Does not belong
- subset
- Not subset

- 62)is categorical data.
 - **(a)** age

- phone number (c) weight **(b)**
- favourite TV show

-is numerical data
 - (a) nationality
- (b) Place of birth
- Exam degree
- **(d)** name

- The LCM of any two different prime numbers is

- The product of
- The smallest **(c)** number
- The greatest number

- The dividend in 321 ÷ 12 = 26 R9 is

(b) 12

- is the better measure of centre for data set with outlier values.
 - Median
- (b) Range
- Mode
- mean

- Which of the following is nearest to zero?

- The best subset for the number 0 is
 - Counting numbers
 Rational numbers
 Integers

- natural numbers





Willer of the following is the greatest horriber	69	Which of the following is the greatest number?
--	----	--

- -5.3
- **b** -3.5
- 3.5
- **d** 5.3

Which of the following is the smallest number?

- -3.2
- **b** -2.3
- **o** -0.5
- **d** -0.01

- Counting numbers
- Rational numbers
- Integers
- d natural numbers

- 72 The range can not be found using.......
 - dot plot
- **b** histogram
- box plot
- all of them

- (73) If the mean of 8, 6, x, 5 is 5, then $x = \dots$
 - 1

(b) 2

- 3
- **(1)**

- 74) The mean of the values "54, 32, 30, 4"is.......
 - 18

(b) 30

- 6) 4
- **1** 54

- **75** The LCM of 5 and 15 is
 - 3

(b) 15

(c) 1

1 3

- (76) The GCF of 5 and 15 is
 - 5

(b) 15

- 0
- **(d)** 3

- (77) The common factor of all number is
 - 0

(b)

- 2
- **d** 100
- (78) If the cost of one ticket "h" and the total cost of 5 tickets "m", Then the independent variable is.......
 - (a) m

b h

- **©** 5
- 5 h
- 79 If the cost of one ticket "h", then total cost of 5 tickets is
 - (a) m

(b) h

- **o** 5
- 5 h

- The order pair which satisfies the equation : y = x + 2
 - (0, 2)
- **(1, 1)**
- (2,1)
- (1, 2)

- (81) Which of the following is numerical expression?
 - (a) 3(6d+5)
- **b** 8+6
- © 2n 9
- 4-h

- (82) Which of the following is algebraic expression?
 - 4(6+5)
- **b** 4-1+2
- © 20÷9
- 3h

- 83 The integer which comes just after -1 is
 - 0

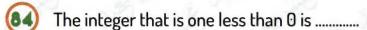
b 1

- -2
- **d** -1





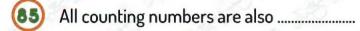




0

(b) 1

- C -2
- d -1



- a natural numbers b
- Rational numbers
- Integers
- All of them

86 | - 10 | >

- I 9.99 I
- **b** 1-901
- © I-100 I
- (d) I 15 I

(87) 5 (8 +) x 7 is a numerical expression.

(a) d

b 4f

- 5
- 19 + n

(88) 5 (8 +) x 7 is a algebraic expression.

3

(b) 5m

- 18 + 2
- (d) 13

(89) Adding 5 to third a number =

- 9 + 3x
- (b) 3x + 5
- $\frac{1}{3}x 5$
- $\frac{1}{3}X + 5$

The distance between -6 and its opposite on the number line is

6

b -6

- 12
- —12

91) | I -15 | = m , then m =

-15

(b) 15

- Both a,b
- neither

92 | -x|=5, then x =

_5

b 5

- Both a.b.
- neither

73 The number of terms in the expression $6d+2-5n \div 4$ isterms

1

(b) 2

- 3
- **1** 4

74 The like terms in the expression 2f+2-2k-8 is

- (a) 2f.2k
- **b** 2,8
- (c) 2.2k
- (d) 2f, 2

95) The constant in the expression 6d+2-5 n is

6

(b) c

- © 5n
- **d** 2

96 The coefficient in the expression 6 d + 2 is

6

(b)

- **6**d
- **d** 2

(97) The balance (mean) of the following date set 1, 2, 3, 4, 4, 6, 8 is.....

2

b 6

- 6
- 8

(98)is another name for the mean .

- Median
- Range
- Mode
- Average

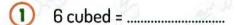






Question 02

Complete



$$5^2 + 6 - 2^3 = \dots$$

$$5x = 20$$
, then $\frac{1}{2}x = \dots$

$$\frac{x}{5} = 6$$
, then x =

$$7 x = 28$$
, then $\frac{1}{2} x = \dots$





- The graph shows the 5-number summary is
- "Twice x added to 7 equals y " as an algebraic equation is
- 28 " m = 5d 5 " as an verbal is
- In the equation : $d = \frac{5}{9}n 8$ the dependent variable is
- 30 The verbal phrase for k + 10 = 12 is
- (31) "20 more than v equals m " in equation is
- The rule is "multiply by 8". if $x = \frac{1}{4}$, then y would be
- 4 more than s equals t in equation is
- The word phrase for the equation "h = 8 g " is
- The ordered pair which satisfies the rule: y = x + 5 is (1,)
- 36 In the rule: y = 4x, if x = 1.5 then $y = \cdots$
- 37 The verbal phrase for : 2 m + 4 = 8 is
- 38 5 3 ²/₅ =.....
- "z equals the sum of adding 12 to the product of 4 and y" the equation is
- The dependent variable in the equation $\mathbf{a} = \mathbf{4} \mathbf{b} + \frac{1}{2}$ is.....
- _____ maximum value minimum value
- The maximum values for the set of values "4,7,9,1,6" is......
- The favourite colours of a number of pupils are......data.
- If the mean of 5 values is 15, then the sum of these values is......
- If the marks of 6 pupils in one of the tests are 29, 33,57,40,36 and 49, then the range for these marks is equal to......
- The number of integers between -5 and -1 are
- The smallest counting number is
- 48 The value of the expression $2x^2 (2 \times 3 + 3^2)$ for x = 3 is
- 49 If the price of one pen is 6 pounds , then the price of x pens is
- 60 If the price of 10 pens is x pounds , then the price of one pen is
- 51) In 54 the base isand the exponent is



Math primary 6 - first term



52	The base is 8 and the exponent is 3, then the exponential form of this is
53	In a square the side length is x then the perimeter is and the area is
54	are the values that lie away the other values.
55	is the middle values of the data set.
56	The additive inverse of -6 is
57	The additive inverse of 0 is
58	The LCM of 5 and 7 is
59	If 50 is the greatest number of data set and the range = 10 ,then
60	The smallest number of this data set equals
61	The number -2.5 in the form $\frac{a}{b}$ is
62	The opposite of the number 50 is
63	The integer which comes just before -9 is
64	The GCF of 5 and 7 is
65	The outlier of the following date set 91, 94, 93, 3, 90, 99 is
66	The mode of the following set "3,4, 5,3,5,7,5,9,5,3" is
67	The range of the set of values 6, 5, 9,4,11,3, 7 is
(68)	If the range of a set of values is 12 and the smallest value is 8, then
69	If the sum of a group of values is 18 and the mean of these values is 3, then the number of these values is
70	The smallest positive integer is
71	The smallest non-negative integer is
72	The greatest non-positive integer is
73	type of data isor
74) 75)	What is your favourite school subject? is question. The GCF of 8 and 9 is
76	The LCM of 8 and 9 is
(77)	864 ÷ 24 =





primary 6 - first term



- 78is a multiple of all numbers.
-is a factor of all numbers.
- The number of terms in the expression 6 h + 2 d 3 x isterms
- (8) The constant in the expression 5f + 2b + 3 is
- **82** |-5|+3=.....
- The graph shows spread of the data in each quarter is.....
- 64data is written in the form of numbers.
- The types of pens preferred by your class's students is adate.
- The median of the following date set "4, 5,7,7,8,9,9" is.....
- 87 | -18 | x 0 =
- The algebraic expression of a number less than 5 is
- The algebraic expression of a number less 5 is
- The coefficient in the expression -5d + 3 is
- 71 The product of 5 and a number t is
- 72) Twice the difference between a number and 6 is

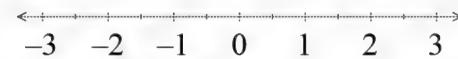
Ouestion 03

Answer the following questions

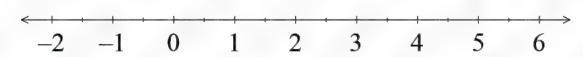
Simplify the following: $1) 6^2 + 2(24 - 9) \div 3$

$$2)8-4\times6\div(5-3)^3$$

- Mohamed has x pounds . he bought a book for 60 pounds . write the algebraic expression of how much money with him now .
- 3 Represent $-2\frac{2}{5}$ on the number line.

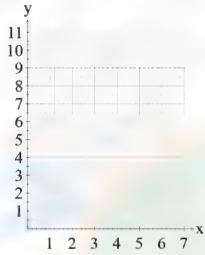


Represent $5 \ge x$ on the number line in the set of integers.





Write an equation. Use the variables x and y ,where x is the independent variable . Write the equation " add 1 and multiply by 2 " and substitute x by 1,2,3 and 4 to evaluate y . then complete the table ,then represent the table on a graph .



Χ	1	2	3	4

Equation is:

Write a verbal phrase for each of the following: a) f + 10 = mb) b = 5 - kc) 2n + 8 = a

Complete the following table according to the equation: y = 3x - 1

Х	1	3	5	7
у	******	******	*****	******

8 Masa needed to earn at least 100 pounds daily to buy a mobile, find four possible amounts that Masa needed to earn, then write the inequality that represented this situation.

9 Joudy paid 3,888 pounds to buy 24 candies . find the price of each box .

Find three rational numbers between 3.5 and 3.6

Write an equation, use the variables x and y, where x is the independent and using the rule "multiply by 8",then substitute $x = \frac{1}{2}$ to evaluate y .



- Write each the verbal phrase as an algebraic equation :
 - (a) m equals twice n increased by 20
 - (b) y equals the product of eight and x added to 48

- (13) When m = 3 . solve $9 + (m^2 3) \div 2$
- Rodina has 30 pounds, she will save 10 pounds daily, write the algebraic expression, then evaluate how much money will she have after 1 week?
- Write a verbal phrase for each of the following equation :
 - a) y = 3x + 1
 - b) y + 5 = x
 - c) $g = (h \div 3) + 12$
- Write an equation, use the variables x and y where x is the independent variable, then evaluate y
 - a) The equation "multiply by 6", substitute if x = 7
 - b) The equation "multiply by 2 and add 3", substitute if x = 2
- By using the opposite dot plot find:
 - (a) The median
 - (b) The mode
 - (c) The range

- 10 11 12 13 14 15 16 17
- If the number of goals registered by Al Zamalek in 6 matches are 3, 2, 6, 6, 1, 6

Calculated the mean, median and mode of the number of goals.

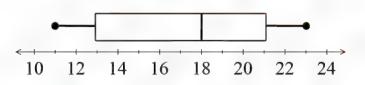
Rahma runs 3 km on Saturday, 5 km Sunday, 4 km Monday 4 km Tuesday and 4 km Friday

Find the mean distance covered by Rahma.

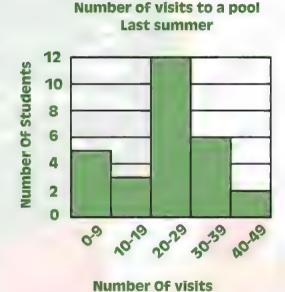




- from the opposite box plot, complete
 - (a) The maximum value =
 - (b) The minimum value =
 - (c) the median =
 - (d) the lower quarter =
 - (e) the upper quarter =



- Solve each of the following equations:
 - (a) $\frac{x}{4} = 3$
 - (b) 12x-5=7
- from the histogram shown at the right answer the following questions.
 - 1. Which interval represents the most number of students?
 - 2. Which interval has three students?
 - 3. How many students went to a pool at least 30 times last summer?
 - 4. How many students went to a pool less than ten times last summer?



تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم





Model Answers



Final Revision

MR. Mahmoud Elkhouly











First term Questions Bank



0	Question 01	Choose t	he correct ar	ıswer			
1	Take away double	e the number	m from 20 is wri	tten as	•••••		
	20 - m	(b)	m - 20	©	2m - 20	d	<u>20 – 2n</u>
2	The volume of the	e cube of edg	ge length 4 cm is		cm ³		
	12 x 4	(b)	4 + 4 + 4	©	<u>4</u> ³	d	34
3	3×3×3×3×3=	********					
	3 x 5	(b)	3+3+3+3+3	©	<u>3</u> ⁵	d	5 ³
4	3+3+3+3+3=	2020202200048					
	3 x 5	(b)	3x3x3x3x3	©	3 ⁵	d	5 ³
(5)	The value of the e	expression 5	m ÷ 3 for m = 6 is		*****		
	3	(b)	5	©	6	d	<u>10</u>
6	The first operatio	n you prefori	n in the expression	on 6 + (5	$3^3 - 4) \div 2$ is .	*******	
	add	(b)	Subtract	©	exponent	d	Divide
7	The first operatio	n you prefori	n in the expression	on 6 + 5	- (4÷2) is		
	a add	(b)	Subtract	©	exponent	d	<u>Divide</u>
9	Seven cubed add	ed to six squa	red equals	****			
	(a) $7 \times 3 + 6 \times 2$	(b)	$6^2 + 7^3$	©	$6^2 - 7^3$	d	$2^6 + 3^7$
(10)	Rozana saved x p		ahmoud Elkholy g	gave her	20 pounds	then she	have
	pounds nov	v .	45	(c)	X + 20	(d)	20 x

- If x + 5 = 8, then 3x =

(b) 5

- 15
- A number if added to 5 the result is 17, then the number is

22

- 5
- 17

-is a solution of the inequality d > 15
 - 15

12

- <u>20</u>
- All of them







								. محمود سعید
14		is a solution of the	e ineq	uality d ≥ 15				
	a	15	(b)	16	0	20	d	All of them
15	The	mode of 7, 9 , 7, 8 , 7	, 6, 7	and 10 is				
	(1)	<u>7</u>	(b)	8	©	9	d	10
16	All th	ne dot plots have the	follo	wing characteristic	s exce	pt		
	a	dot plot should hav	e title	es	(b)	dot plots should h	ave da	ta graphed above a
	©	the number lines in d	lot plo	ts should start at 0	d	each individual pi a dot plot and is r		data can be seen on nted by a dot.
(17)	Α	has two axes, horiz	zontal	and vertical.				
	a	bar graph	(b)	histogram	©	double bar graph	d	all of them
(18)	The	qu <mark>estion</mark> : what are t	he st	udents favourite co	olours?	? Is a quest	ion	
	a	statistical	b	non-statistical	©	numerical data	d	All of them
19	The	range = the greatest	value	e the smallest	values			
	(1)	+	(b)	-	©	÷	d	×
20	The	<mark>best</mark> sub <mark>set for t</mark> he r	numb	er 5 is				
	a	Counting numbers	(b)	Rational numbers	©	Integers	d	natural numbers
21)	The	best su <mark>bset for</mark> the r	numb	er 5. <mark>2 is</mark>				
	a	Counting numbers	b	Rational numbers	©	Integers	d	natural numbers
22	The	Set o <mark>f counti</mark> ng num	bers .	The set o	of ratio	onal numbers		
	a	Belong	(b)	not belong	©	subset	d	Not subset
23	The	Set of integers	********	The set of natural r	numbe	ers		
	a	Belong	(b)	not belong	C	subset	d	Not subset
24)	-5	The set of	of ratio	onal numbers				
	a	Belong	(b)	not belong	©	subset	d	Not subset
(25)	r is S	times p added to tw	vice m	n in the equation is.	*******			

r = 2m + 9p





r = 9p + m

9r = p + 2m

r + m = 9p





								عود سعید ک
26	In the ed	uation : y = x + 1,	if the	output is 1, then th	e inpu	ıt is		
	a 1		(b)	3	©	2	d	<u>0</u>
27	The orde	er pair which sati	sfies l	the rule: $y = 3x + 1$	is			
	<pre>(0)</pre>	, 0)	(b)	(0, 4)	©	(- 1, 1)	d	<u>(1, 4)</u>
28	which of	the following da	ite sel	t hasn't any outlier?				
	100	3,104,105,103,102,	17		(b)	24,25,26,21,22,2	23,204	
	© <u>30</u>	<u>0, 309,302,303,</u>	305,3	<u>06,308</u>	d	4,211,212,213,214	,215,10	00
29	Youssef	eat at least 3 ora	nges	, then Youssef may	eat	oranges		
	3		(b)	5	©	12	d	All of them
30	Layan ha	as <mark>25 pound</mark> s and	l Maya	a has more money	than l	ayan , then Maya	a may	haspoun
	25		(b)	20	©	<u>100</u>	d	All of them
(31)	-		Karee	m has less candies	than i	Zyad , then Karee	em ma	ay has
	can		(b)	16		10		All of them
			ATHIS	and Mohamed boo	ught s	_	more,	
(32)		ght SPIR						
	6		(b)	12	©	100	(1)	All of them
(33)	All of the	e foll <mark>owing</mark> are so	olution	ns of inequality $x \le x$	-8 exc	cept		
	8-		(b)	-10	©	<u>-7</u>	d	All of them
(34)		juation : 5x + 2 =	y, the	independent varia	ble is .	***************************************		
	a 5	1		2	(c)	X	d	у
(35)		$ vation: b = \frac{1}{2}f +$		dependent variabl		***************		
	a 5		(b)		(c)	f	d	<u>b</u>
(36)	The GCF	of any two diffe	rent p	orime numbers is	********			
	(a)		(b)	1	©	itself	d	The smallest number
(37)	$\frac{3}{6} + \frac{1}{2} =$							Horrisci
		************		3				4
	$\frac{1}{2}$		(D)	$\frac{3}{6}$	(c)	1		8
(38)	Which o	f the following is	an eq	juation?				

7 times the number h



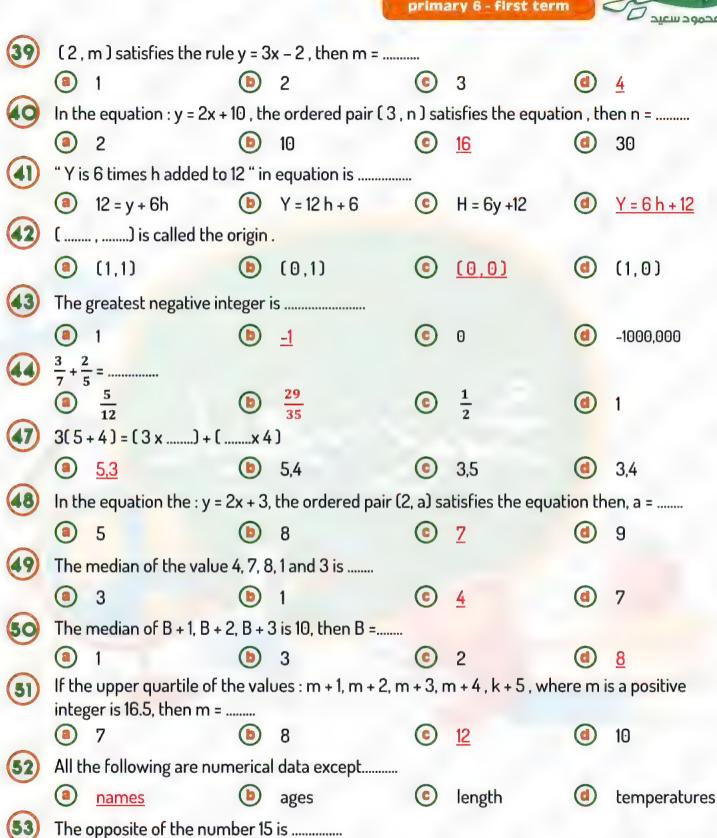


3n + 7

6e-7







I 15 I

141

The additive inverse of I - 41 is





(a) 15

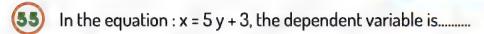
-15

I -15 I

1-41







5y

b ×

- <u>С</u> у
- **d** 3

In the equation: 4 a + 24 = b, the independent variable is........

a

b b

- 24
- **d** 4a

(57) "k equals the product of m and 4" in equation is..........

- k = 4 m
- **b** k = 4 + m
- © m=4k
- m = k + 4

which of the following is an equation?

- (a) 20 x + 53.2
- (b) 2+ m
- © Y > 12
- **d** 5x = 20

(59) "30 less than f equals y" in the equation is......

- **b** 30 + f = y
- © F 30 = y
- 4 30 = f

If (4,.....) satisfies the rule $y = \frac{1}{2}x + 2$

4

(b) 10

- 6
- **d** 2

 $\frac{9}{2}$ The set of natural numbers

- Belong
- **Does not belong**
- subset
- Not subset

62is categorical data.

age

- **b** phone number
- © weight
- d favourite TV show

63is numerical data

- a nationality
- Place of birth
- © Exam degree
- name

64) The LCM of any two different prime numbers is

(a) 1

- The product of them
- The smallest number
- The greatest number

65 The dividend in 321 ÷ 12 = 26 R9 is

321

(b) 12

- 26
- **d** 9

66 is the better measure of centre for data set with outlier values.

- (a) Median
- Range
- Mode
- mean

(67) Which of the following is nearest to zero?

5

(b) =

- -3
- **d** 3

68 The best subset for the number 0 is

- Counting numbers
- **(b)** Rational numbers
- Integers
- **d** natural numbers









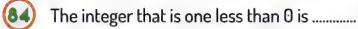
69)	Whi	ch of the following is	the g	reatest number?				
	(1)	-5.3	(b)	-3.5	©	3.5	d	<u>5.3</u>
70	Whi	ch of the following is	the s	mallest number?				
	a	<u>-3.2</u>	(b)	-2.3	©	-0.5	d	-0.01
71	The	best subset for the n	numbe	er -3 is				
	a	Counting numbers	b	Rational numbers	©	Integers	d	natural numbers
72	The	range can not be fou	ınd us	ing				
	(1)	dot plot	(b)	histogram	©	box plot	d	all of them
(73)	If the	e mea <mark>n of 8, 6</mark> , x, 5 is	5, the	en x =				
	(1)	1	(b)	2	C	3	d	4
(74)	The	me <mark>an o</mark> f the values "	54, 32	2, 30 ,4"is				
	(1)	18	(b)	<u>30</u>	(c)	4	(1)	54
(75)		LC <mark>M o</mark> f 5 and 15 is		**				
		5		<u>15</u>	©	1	(1)	3
(76)		GCF of 5 and 15 is						
		5	(b)	15	(c)	1	d	3
		common factor of al	I num	ber is	\sim			
	(a)	0	(1	(c)	2		100
(78)		e cost of <mark>one ticket</mark> "h"	and th		ets "m		endenl	
		m		<u>h</u>		5	•	5 h
(4)		e cost of one ticket "l						5 1
		m	(b)	h		5	(1)	<u>5 h</u>
60		order pair which sati	sries		+2	(2.1)		(1.2)
	(a)	(0, 2)		(1, 1)		(2,1)	(d)	(1, 2)
(81)	whice	ch of the following is	nome	•	(c)	2n - 9	(d)	4 – h
(82)		3(6d + 5) The following is		8+6		211 - 3		4-11
	WIIII	4(6+5)	aigen	4 – 1 + 2	©	20 ÷ 9	(d)	<u>3h</u>
83		integer which comes	inst:			20 - 0		<u> </u>
		The section of the se	Justi	4				











0

(b)

- **c** -2
- **d** -1

All counting numbers are also

- a natural numbers b
- Rational numbers
- Integers
- All of them

86 | - 10 | >

- a 1-9.991
- (b) I-90I
- C | 100 |
- (d) I 15 I

 $5(8 + \dots) \times 7$ is a numerical expression.

d

(b) 4f

- **©** 5
- (d) 19 + n

68 5 (8 +) x 7 is a algebraic expression.

3

- **b** 5m
- © 18+2
- **(d)** 13

89 Adding 5 to third a number =

- 9 + 3x
- (b) 3x + 5
- $\frac{1}{3}x 5$
- (d) $\frac{1}{3}x + 5$

The distance between -6 and its opposite on the number line is

6

b -6

- © 12
- —12

91) I -15 I = m , then m =

-15

(b) 15

- Both a,b
- neither

92 | 1-x | = 5, then x =

(a) -5

b 5

- Both a,b
- neither

93) The number of terms in the expression $6d+2-5n \div 4$ isterms

1

(b) 2

- 3
- **d** 4

74 The like terms in the expression 2f+2-2k-8 is

- 2f, 2k
- **b** 2,8
- © 2,2k
- **1** 2f, 2

95 The constant in the expression 6d+2-5n is

6

b q

- © 5n
- **d** 2

96) The coefficient in the expression 6d + 2 is

6

b d

- **6**d
- **d** 2

The balance (mean) of the following date set 1, 2, 3, 4, 4, 6, 8 is.....

2

b 6

- **©** 4
- **(1)** 8

(98)is another name for the mean .

- (a) Median
- Range
- Mode
- **d** Average









Question 02

Complete



$$\mathbf{3} \quad 5^2 + 6 - 2^3 = \dots 23 \dots$$

- If the number of chicken owned is "t" and the number of eggs collected daily is "h", then the independent variable ist.....
- **....7...** 20 is...**7...** The lower quartile for the set of data : 5, 7, 9 ,10 ,12 ,15 , 20 is...**7...**
- 6 The graph shows gaps and cluster is dot plot.....
- The graph shows distribution and spread isbox plot.....
- **8** The upper quartile of the values "7, 1, 6, 2, 3, 1, 9" is......7.....
- The median of the values "2, 7, 10, 0, 2, 5, 6, 6, 12, 1" is...5.5..
- If the upper quartile of the values: x + 14, x + 10, x + 12, x + 15, x + 16, x + 11, x + 14, x + 17 where x = 10 is a positive integer is 18.5, then x = 10.....
- 5x = 20, then $\frac{1}{2}x = ...2$
- 100 x = 0 , then 12 x = ...0......
- (13) 100 x = 100 , then 12 x =12......
- $\frac{x}{5} = 6$, then x = ...30....
- 15) 3 n = 15, then n =5......
- 16 X + 5.4 = 7.8 , then x =3.4......
- 7 x = 28, then $\frac{1}{2} x =2$
- (18) "F equals the product of m and 6" as an equation isf = 6m
- The inequality that represent the negative integers is x ≤ -1
- we use..... dot plot......to see exactly how many times each individual values occurs.
- The inequality that represent the positive integers is x ≥ -1
- The smallest natural number is0......
- The inequality that represent the non-negative integers is ...x ≥ 0
- The inequality that represent the non-positive integers isx ≤ 0





- 25 The graph shows the 5-number summary isbox plot.....
- The graph shows the set of data in form of intervals ishistogram.....
- "Twice x added to 7 equals y" as an algebraic equation is ...y = 7 + 2x
- (28) " m = 5d 5" as an verbal is ...m equals 5 times d decreased by 5
- In the equation : $d = \frac{5}{9}n 8$ the dependent variable isd........
- The verbal phrase for k + 10 = 12 isthe sum of a number and 10 equals 12
- (31) "20 more than v equals m " in equation isv + 20 = m......
- The rule is "multiply by 8". if $x = \frac{1}{4}$, then y would be2.......
- 4 more than s equals t in equation iss + 4
- The word phrase for the equation "h = 8 g " is ... h equals 8 times g...
- The ordered pair which satisfies the rule: y = x + 5 is (1, ..6...)
- 36 In the rule: y = 4x, if x = 1.5 then $y = \cdots 6$...
- The verbal phrase for: 2 m + 4 = 8 isdouble m increased by 4 equal 8
- 38 $5-3\frac{2}{5}=...1\frac{3}{5}....$
- "z equals the sum of adding 12 to the product of 4 and y" the equation isz = 4y + 12....
- The dependent variable in the equation $\mathbf{a} = \mathbf{4} \mathbf{b} + \frac{1}{2}$ is....a....
-range.....= maximum value minimum value
- The maximum values for the set of values "4,7,9,1,6" is..9...
- The favourite colours of a number of pupils are..... categorical...... data.
- If the mean of 5 values is 15, then the sum of these values is....75.....
- If the marks of 6 pupils in one of the tests are 29, 33,57,40,36 and 49, then the range for these marks is equal to....28....
- The number of integers between -5 and -1 are3......
- The smallest counting number is1.........
- **48** The value of the expression $2x^2 (2 \times 3 + 3^2)$ for x = 3 is3.........
- 49 If the price of one pen is 6 pounds, then the price of x pens is6x..........
- If the price of 10 pens is x pounds, then the price of one pen is $x \div 10$
- (51) In 5⁴ the base is5......and the exponent is4......





- The base is 8 and the exponent is 3, then the exponential form of this is83.......
- 53 In a square the side length is x then the perimeter is4x.... and the area is ...x²....
-outlier.... are the values that lie away the other values.
- (55)median.....is the middle values of the data set.
- 56) The additive inverse of -6 is6........
- 57) The additive inverse of 0 is0......
- **58** The LCM of 5 and 7 is35.....
- (59)mode.....is the value that occurs most often .
- If 50 is the greatest number of data set and the range = 10 ,then The smallest number of this data set equals.....40......
- 61) The number -2.5 in the form $\frac{a}{b}$ is $\frac{25}{10}$
- 62) The opposite of the number 50 is-50........
- 63 The integer which comes just before -9 is-10......
- 64 The GCF of 5 and 7 is1.....
- 65 The outlier of the following date set 91, 94, 93, 3, 90, 99 is....3....
- 66 The mode of the following set "3,4, 5,3,5,7,5,9,5,3" is...3.....
- 67) The range of the set of values 6, 5, 9,4,11,3, 7 is......8....
- 68 If the range of a set of values is 12 and the smallest value is 8, then the largest values is.....20.....
- 69 If the sum of a group of values is 18 and the mean of these values is 3, then the number of these values is....6.....
- The smallest positive integer is1.........
- 71 The smallest non-negative integer is
- The greatest non-positive integer is
- type of data is categorical..... or numerical......
- What is your favourite school subject? is a..... non-statistical.... question.
- 75 The GCF of 8 and 9 is1.....
- 76 The LCM of 8 and 9 is72.....
- (77) 864 ÷ 24 =36......









- 780....is a multiple of all numbers.
- 791......is a factor of all numbers.
- The number of terms in the expression 6h + 2d 3x is3......terms
- (81) The constant in the expression 5f + 2b + 3 is3.......
- **82** 1-51+3=.....8.....
- 83) The graph shows spread of the data in each quarter is... box plot....
- 64) numerical....... data is written in the form of numbers.
- (85) The types of pens preferred by your class's students is acategorical.... date.
- **86** The median of the following date set "4, 5,7,7,8,9,9" is...7....
- (87) | -18 | x 0 =0.
- The algebraic expression of a number less than 5 is5-x......
- 69 The algebraic expression of a number less 5 isx-5......
- The coefficient in the expression -5d + 3 is-5.......
- (91) The product of 5 and a number t is5t..........
- 92) Twice the difference between a number and 6 is ... 2(x-6)..........

Question 03

Answer the following questions

Simplify the following: 1) $6^2 + 2(24 - 9) \div 3$

$$2)8-4\times6\div(5-3)^3$$

1) 46

2)5

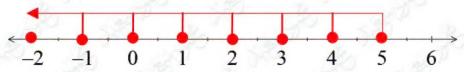
Mohamed has x pounds . he bought a book for 60 pounds . write the algebraic expression of how much money with him now .

X - 60

3 Represent $-2\frac{2}{5}$ on the number line.



Represent $5 \ge x$ on the number line in the set of integers.



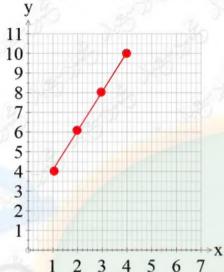


primary 6 - first term



Write an equation. Use the variables x and y ,where x is the independent variable.

Write the equation " add 1 and multiply by 2 " and substitute x by 1,2,3 and 4 to evaluate y. then complete the table ,then represent the table on a graph.



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X	₂ 1	2	3	4
у	4	6	8	10

6 Write a verbal phrase for each of the following:

a)
$$f + 10 = m$$

b)
$$b = 5 - k$$

c)
$$2n + 8 = a$$

- a) 10 more than f equals m
- b) b equals 5 decreased by k
- c) the sum of twice n and 8 equals a
- Complete the following table according to the equation: y = 3x 1

X	1	3	5	7
у	2	8	14	20

Masa needed to earn at least 100 pounds daily to buy a mobile. find four possible amounts that Masa needed to earn ,then write the inequality that represented this situation.

100,150,200,300

9 Joudy paid 3,888 pounds to buy 24 candies . find the price of each box .

3,888 ÷ 24 = 162 pounds

Find three rational numbers between 3.5 and 3.6

3.51, 3.52, 3.53

Write an equation, use the variables x and y, where x is the independent and using the rule " multiply by 8 ",then substitute $x = \frac{1}{2}$ to evaluate y .

The equation is y = 8x

, then
$$y = \frac{1}{2} \times 8 = 4$$

Math primary 6 - first term



- Write each the verbal phrase as an algebraic equation :
 - (a) m equals twice n increased by 20
 - (b) y equals the product of eight and x added to 48

a) m = 2n + 20

b) $y = y = 48 + 8 \times$

(13) When m = 3 . solve $9 + (m^2 - 3) \div 2$

12

Rodina has 30 pounds, she will save 10 pounds daily. write the algebraic expression, then evaluate how much money will she have after 1 week?

The expression is 30 + 10 d

Money with her = $30 + 10 \times 7 = 100$ pounds

Write a verbal phrase for each of the following equation :

a) y = 3x + 1

- b) y + 5 = x
- c) $q = (h \div 3) + 12$

a) y equals 3 times x increased by 1

- b) the sum of y and 5 is x
- c) g equals the sum of h divided by 3 and 12
- Write an equation, use the variables x and y where x is the independent variable, then evaluate y
 - a) The equation " multiply by 6", substitute if x = 7
 - b) The equation " multiply by 2 and add 3", substitute if x = 2

a) y = 6x, then $y = 6 \times 7 = 42$

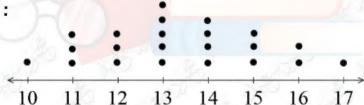
b) y = 2x + 3, then y = 2x + 3 = 7

By using the opposite dot plot find:

(a) The median

(b) The mode

(c) The range



- Median= 13 , mode = 13 , range = 7
- If the number of goals registered by Al Zamalek in 6 matches are 3, 2, 6, 6, 1, 6

Calculated the mean, median and mode of the number of goals.

Mean = $24 \div 6 = 4$

Median = $9 \div 2 = 4.5$

Mode = 6



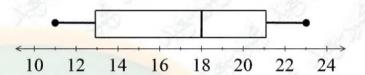
Rahma runs 3 km on Saturday, 5 km Sunday, 4 km Monday 4 km Tuesday and 4 km Friday

Find the mean distance covered by Rahma

Find the mean distance covered by Rahma.

Mean =
$$20 \div 5 = 4$$

- from the opposite box plot, complete
 - (a) The maximum value =23.....
 - (b) The minimum value = 11.....
 - (c) the median = 18......
 - (d) the lower quarter = $\dots 13\dots$
 - (e) the upper quarter =21.....



Solve each of the following equations:

(a)
$$\frac{x}{4} = 3$$

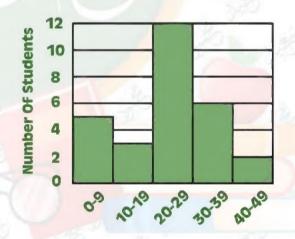
(b)
$$12x - 5 = 7$$

a)
$$x = 12$$

b)
$$x = 1$$

- from the histogram shown at the right answer the following questions.
 - 1. Which interval represents the most number of students?20-29....
 - 2. Which interval has three students?10-19.....
 - 3. How many students went to a pool at least 30 times last summer?8.....
 - 4. How many students went to a pool less than ten times last summer?5....

Number of visits to a pool Last summer



Number Of visits

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم